

**RADIOACTIVE MATERIAL LICENSE**

*Pursuant to the California Code of Regulations, Division 1, Title 17, Chapter 5, Subchapter 4, Group 2, Licensing of Radioactive Material, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, use, possess, transfer, or dispose of radioactive material listed below; and to use such radioactive material for the purpose(s) and at the places(s) designated below. This license is subject to all applicable rules, regulations, and orders of the Department of Health Services now or hereafter in effect and to any standard or specific condition specified in this license.*

1. Licensee	Smith Emery Company	3. License Number	3789-38	Amendment Number: 20
2. Address	P.O. Box 880550	4. Expiration date	April 20, 2003	(5)
	San Francisco, CA 94188-0550	5. Inspection agency	Radiologic Health Branch	
Attention:	Daniel P. O'Connell, Vice President		Berkeley	
	c/o Patrick Morrison, Radiation Safety Officer			

In response to the letter with attachments dated February 25, 1999, signed by Daniel P. O'Connell, License Number 3789-38 is hereby amended as follows:

6. Nuclide	7. Form	8. Possession Limit
A. Cesium 137/Americium 241:Be	A. Sealed sources (CPN #131)	A. 15 source pairs not to exceed 10 mCi of Cesium 137 and 50 mCi of Americium 241 (each).

9. Authorized Use

- A. To be used as components of gauges, CPN Corporation Models, A, BR, MC, or 500 series, for determination of moisture/density in engineering materials.

LICENSE CONDITIONS

10. Radioactive materials may be used at temporary job sites of the licensee in areas not under exclusive federal jurisdiction throughout the State of California (see Condition 23). Radioactive materials may be permanently stored only at:

(a) Building 114, Hunters Point Shipyard, San Francisco, CA (storage capacity: 15 gauges).

11. This license is subject to an annual fee for sources of radioactive material authorized to be possessed at any one time as specified in Items 6, 7, 8 and 9 of this license. The annual fee for this license is required by and computed in accordance with Title 17, California Code of Regulations, Sections 30230-30232 and is also subject to an annual cost-of-living adjustment pursuant to Section 100425 of the California Health and Safety Code.

12. Radioactive material may be used only by, or under the supervision and in the physical presence of, individuals who:

- (a) Have satisfactorily completed a course, accepted by the Department as adequate, in safe use of soil/asphalt content gauges containing radioactive material and also;
- (b) Have been provided with a statement, signed by the Radiation Safety Officer, which designates that individual as an authorized user qualified to use radioactive material under this license. Copies of these documents shall be maintained for inspection by the Department.

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13. Except as specifically provided otherwise by this license, the licensee shall possess and use radioactive material described in Items 6, 7, 8 and 9 of this license in accordance with the statements, representations, and procedures contained in the documents listed below. The Department's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - (a) The renewal application dated April 18, 1996 and the letters with attachments dated July 1, 1996 and August 7, 1996, all signed by Patrick Morrison.
14.
  - (a) **The Radiation Safety Officer in this program shall be Patrick Morrison.**
  - (b) **The Alternate Radiation Safety Officer in this program shall be Gary Balbi.**
15. Sealed sources contained in soil/asphalt gauges shall be tested for leakage and/or contamination at intervals not to exceed one year.
16. The following individuals are authorized to collect wipe test samples of sealed sources possessed under this license using leak test kits acceptable to the California Department of Health Services:
  - (a) The Radiation Safety Officer
  - (b) Qualified individuals designated in writing by the Radiation Safety Officer
17. Quantitative analytical assays for the purpose of tests for leakage and/or contamination of sealed sources shall be performed only by persons specifically authorized to perform that service.
18. Records of leak test results shall be kept in units of microcuries and maintained for inspection. Records may be disposed of following Department inspection. Any leak test revealing the presence of 0.005 microcuries or more of removable radioactive material shall be reported to the Department of Health Services, Radiologic Health Branch, 601 N. 7th Street, P.O. Box 942732 - MS 178, Sacramento, CA 94234-7320, within five days of the test. This report shall include a description of the defective source or device, the results of the test, and the corrective action taken.
19. Maintenance and repair of soil/asphalt content gauges shall be performed only by persons specifically authorized to perform those services.
20. At any time the licensee is engaged in making measurements by authority of this license at either a permanent or temporary job site, the licensee shall have a current copy of each of the following documents available for inspection at the job site:
  - (a) A statement authorizing each qualified individual to use radioactive material (See Condition 12).
  - (b) This license.
  - (c) The manufacturer's instruction manual with appropriate emergency procedures.
21. The licensee shall comply with all requirements of Title 17, California Code of Regulations, Section 30373 when transporting or delivering radioactive materials to a carrier for shipment. These requirements include; packaging, marking, labeling, loading, storage, placarding, monitoring, and accident reporting. Shipping papers shall be maintained for inspection pursuant to the U.S. Department of Transportation requirements (Title 49, Code of Federal Regulations, Part 172, Sections 172.200 through 172.204).

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22. The licensee shall conduct a physical inventory every six months to account for all sealed sources and/or devices received and possessed under the license. Records of the inventories shall be maintained for inspection, and may be disposed of following Department inspection.
23. Before radioactive materials may be used at a temporary job site at any federal facility, the jurisdictional status of the job site must be determined. If the jurisdictional status is unknown, the federal agency should be contacted to determine if the job site is under exclusive federal jurisdiction. A response shall be obtained in writing or a record made of the name and title of the person at the federal agency who provided the determination and the date that it was provided. Authorization for use of radioactive materials at the job sites under exclusive federal jurisdiction shall be obtained either by:
- (a) Filing an NRC Form-241 in accordance with the Code of Federal Regulations, Title 10, Part 150.20 (b), "Recognition of Agreement State Licenses", or
  - (b) By applying for a specific NRC license.

Before radioactive material can be used at a temporary job site in another State, authorization shall be obtained from the State if it is an Agreement State, or from the NRC for any non-Agreement State, either by filing for reciprocity or applying for a specific license.

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For the State Department of Health Services

Date: February 26, 1999

By: \_\_\_\_\_

Radiologic Health Branch  
P.O. Box 942732-MS 178, Sacramento, CA 94234-7320